L1: Entry 1 of 2 File: EPAB Dec 7, 1995

PUB-NO: DE019506145C1
DOCUMENT-IDENTIFIER: DE 19506145 C1
TITLE: Tool for making wax patterns for casting impeller blades

PUBN-DATE: December 7, 1995

INVENTOR-INFORMATION:

NAME	COUNTRY
HOFMEISTER, HEINZ DIPL ING	DE
REICHLE, WERNER DIPL ING	DE

ASSIGNEE-INFORMATION:

NAME	COUNTRY
MOTOREN TURBINEN UNION	DE

APPL-NO: DE19506145
APPL-DATE: February 22, 1995

PRIORITY-DATA: DE19506145A (February 22, 1995)

INT-CL (IPC): B22 C 23/00; B22 C 7/02; B22 D 17/22
EUR-CL (EPC): B22C007/02; B22C023/00, B22C009/28 , B22D025/02

ABSTRACT:

CHG DATE=19990617 STATUS=O>The tool consists of a first set of loose parts defining the outer contours and a second set of shape-segments (5) restrained to move on a transport mechanism and then defining the vane shape of the impellers. The transport mechanism comprises coaxially assembled carrier plate, drive plate with spiral grooves radiating from the centre and acting as transportation and a curve plate rotating with the drive plate though pins which run both in the drive plate grooves and other spiral grooves in the curve plate. Each shape-segment consists of a segment foot, a vane contour form and a carrier pin which rides in the groove of the curve plate. The shape of guide plate (10) is a composite of two or more curves so that at a point (44) the sense of rotation is reversed. Each shape-segment has, in addition to its drive pin (11) an additional guide pin (12) at a distance (43) from it.

WEST

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L1: Entry 2 of 2 File: DWPI Dec 7, 1995

DERWENT-ACC-NO: 1996-011939
DERWENT-WEEK: 199639

TITLE: Tool for making wax patterns for casting impeller blades - comprises outer contour parts and second set of shape=segments restrained to move on transport mechanism and defining vane shape

INVENTOR: HOFMEISTER, H; REICHLE, W

PATENT-ASSIGNEE:

ASSIGNEE	CODE
MTU FRIEDRICHSHAFEN GMBH	MOTU

PRIORITY-DATA: 1995DE-1006145 (February 22, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 19506145 C1	December 7, 1995		009	B22C023/00
EP 728545 A2	August 28, 1996	G	010	B22C023/00

DESIGNATED-STATES: CH ES FR GB LI

CITED-DOCUMENTS:No-SR.Pub

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19506145C1	February 22, 1995	1995DE-1006145	
EP 728545A2	February 20, 1996	1996EP-0102495	

INT-CL (IPC): B22 C 7/02; B22 C 23/00; B22 D 17/22

ABSTRACTED-PUB-NO: DE 19506145C
BASIC-ABSTRACT:

The tool consists of a first set of loose parts defining the outer contours and a second set of shape-segments (5) restrained to move on a transport mechanism and then defining the vane shape of the impellers. The transport mechanism comprises coaxially assembled carrier plate, drive plate with spiral grooves radiating from the centre and acting as transportation and a curve plate rotating with the drive plate though pins which run both in the drive plate grooves and other spiral grooves in the curve plate.

Each shape-segment consists of a segment foot, a vane contour form and a carrier pin which rides in the groove of the curve plate. The shape of guide plate (10) is a composite of two or more curves so that at a point (44) the sense of rotation is reversed. Each shape-segment has, in addition to its drive pin (11) an additional guide pin (12) at a distance (43) from it.

USE/ADVANTAGE - For use in a lost wax process, in the casting of impeller blades with curved vanes. The tool allows mass production of wax patterns for a lost wax process.

CHOSEN-DRAWING: Dwg.1,2/4

TITLE-TERMS: TOOL WAX PATTERN CAST IMPEL BLADE COMPRISE OUTER CONTOUR PART SECOND SET RESTRAIN MOVE TRANSPORT MECHANISM DEFINE VANE SHAPE

DERWENT-CLASS: P53

SECONDARY-ACC-NO:
Non-CPI Secondary Accession Numbers: N1996-010254